#### D'YAKONOV, F.V.

Valuable contribution to the study of the economic aspects of agriculture in Yakutia ("Materials on the economics of agriculture of Yakutia." Reviewed by F.V. D'iakonov). Izv. Sib. otd. AN SSSR no.4:145-148 '58. (MIRA 11:9)

1. Institut kompleksnykh transportnykh problem AN SSSR. (Yakutia--Agriculture--Economic aspects)

D'YAKONOV, F.V.

Geography problems related to main-line transportation in the northeastern U.S.S.R. Trudy Vost.- Sib. fil. AN SSSR no.32:116-124 '60. (MIRA 14:4) (Siberia, Eastern-Transportation)

D'YAKONOV, F.V.

Yakutia. Geog. v shkole 25 no.1:19-25 Ja-F '62. (MIRA 15:1) (Yakutia--Economic geography)

D'YAKONOV, F.V.

Productive forces and the production-territorial complexes of the northeastern part of the U.S.S.R. Izv. AN SSSR. Ser. geog. no.4; 35-46 Jl-Ag '63. (MIRA 16:8)

1. Institut geografii AN SSSR.
(Russia, Northern—Industries, Location of)

KORZHUYEV, S.S.; VITVITSKIY, G.N.; YEGOROV, O.V.; NAUMOV, S.N.;

ZOL'NIKOV, V.G.; KARAVAYEV, M.N.; KACHURIH, S.P.;

KOSMACHEV, K.P.; Prinimali uchastiye: KORONKEVICH, N.I.;

D'YAKONOV, F.V.; GERASIMOV, I.P., akademik, red.;

PREOBRAZHESNKIY, V.S., red.; RIKHTER, G.D., red.; AHRAMOV, L.S.

red.; ARMAND, D.L., red.; GELLER, S.Yu., red.; ZONN, S.V., red.;

DZERDZEYEVSKIY, B.L., red.; KOMAR, I.V., red.; LAVRENKO, Ye.M.,

red.; LEONT'YEV, N.F., red.; LETUNOV, P.A., red.; L'VOVICH,

M.I., red.; MESHCHERYAKOV, YJ.A., red.; MINTS, A.A., red.;

MURZAYEV, E.M., red.; NASIMOVICH, A.A., red.; POKSHISHEVSKIY,

V.V., red.p POMUS, M.I., red.; ROZOV, N.N., red.; SOCHAVA, V.B.,

red.; FORMOZOV, A.N., red.; YANSHIN, A.L., red.

[Yakutia] IAkutiia. Moskva, Nauka, 1965. 464 p. (MIRA 18:8)

1. Akademiya nauk SSSR. Institut geografii. 2. Institut geografii AN SSSR (for Korzhuyev. Vitvitskiy). 3, Yakutskiy filial Sibirskogo otdeleniya AN SSSR (for Yegorov). 4. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy (for Naumov). 5. Pochvennyy muzey AN SSSR (for Zol'nikov). 6. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Karavayev). 7. Proizvodstvennyy nauchno-issledovatel'skiy institut stroitel'stva Gosstroya SSSR (for Kachurin). 8. Institut geografii Sibiri Dal'nego Vostoka Sibirskogo otdeleniya AN SSSR (for Kosmachev).

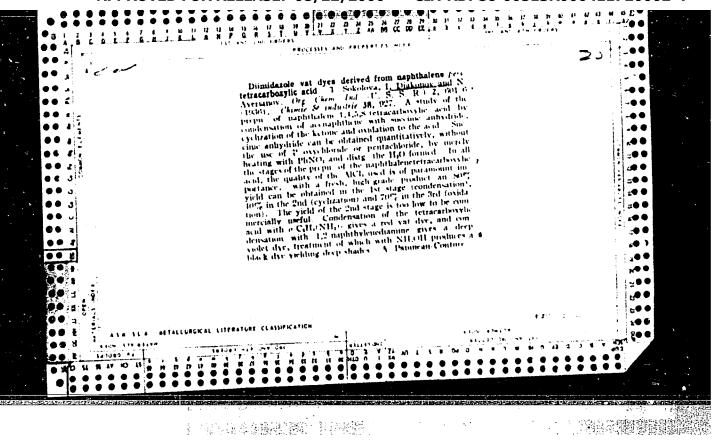
D'YAKONOV, G.

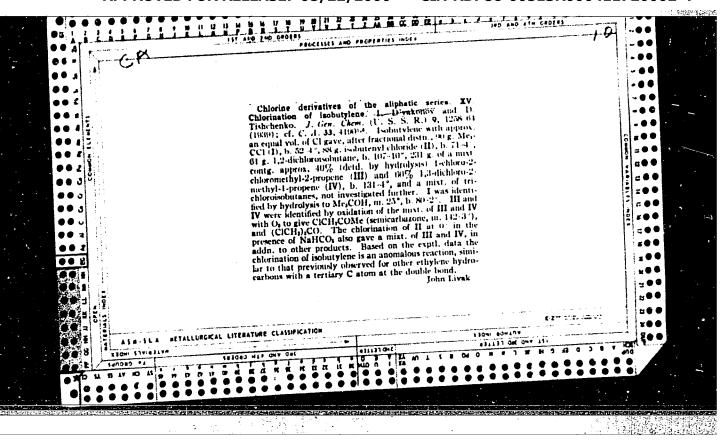
Enamel. Tekh, malod. 20, No 8, 1952.

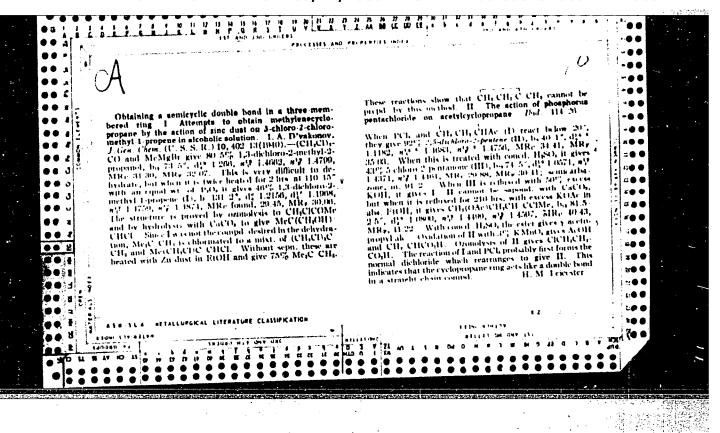
DYAKONOV, G.K.	(Deceased)	
(Heat Engineering)		
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Smirnov, N. Ye., Kheyfets, D'yakonov, O. M.; Dubro, G	Mulyar, L. G.; Krasikov, Y. I.; A. I.; Smirnoy, K. F.; Obukhov B.; Alipov, A. N.	Miroshnichenko, A. K.; Yu. A.; Vorontsov, A.
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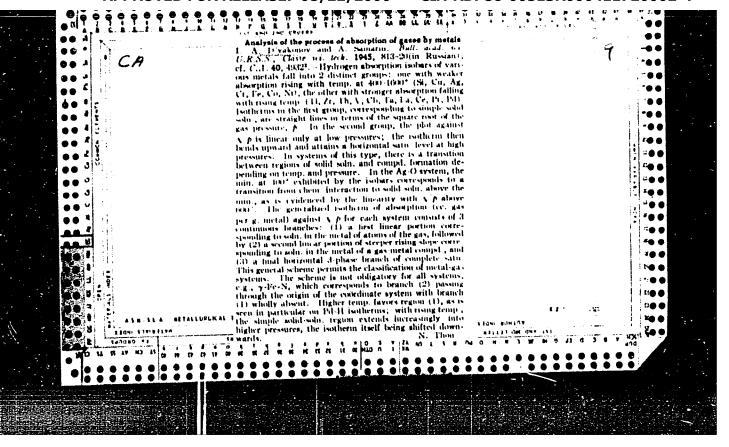


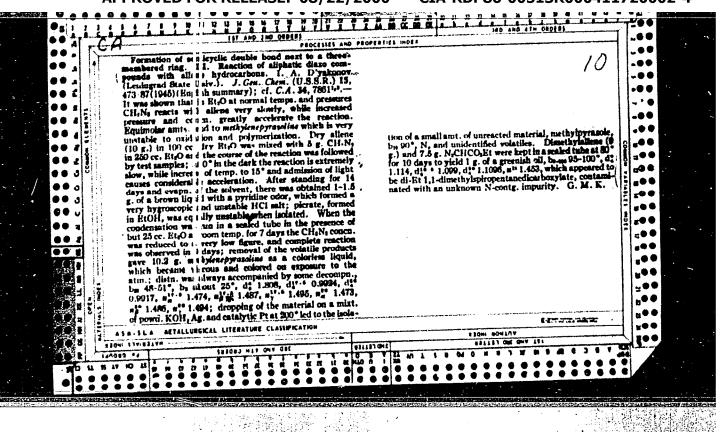


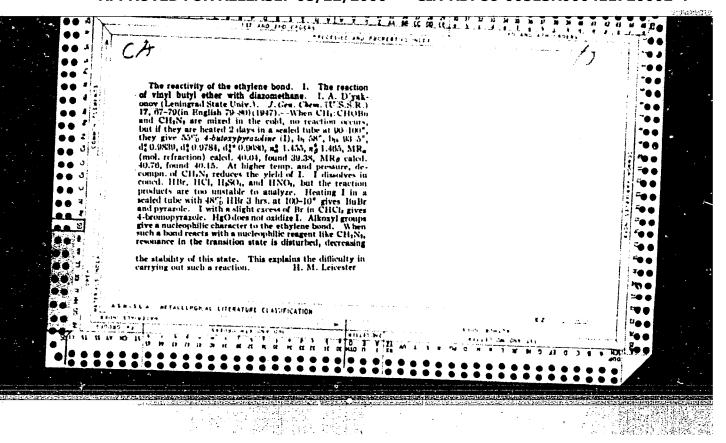
DYAKONOV, J. A.

"The problem of obtaining Semicyclic Double Bond next to a Three Member Cycle. III.
On the Reaction of Aliphatic Diazocompounds with Allene H ydrocarbons." Dyakonov, J. X. (p. 473)

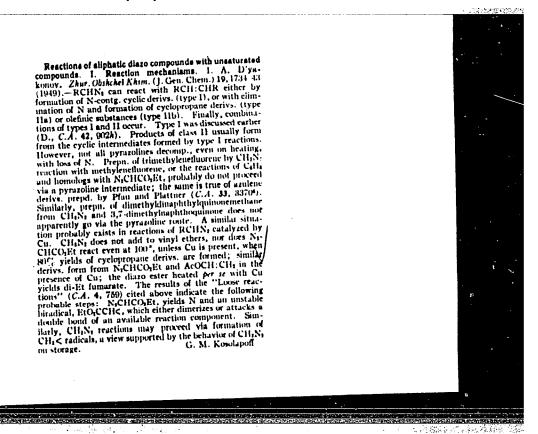
SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1945, Volume 15, no. 6.

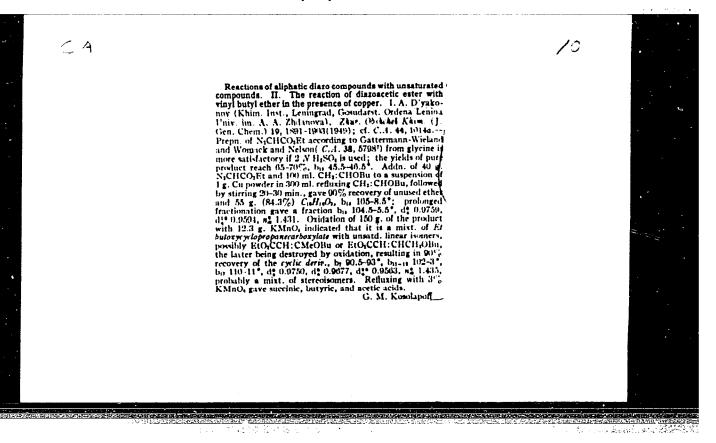


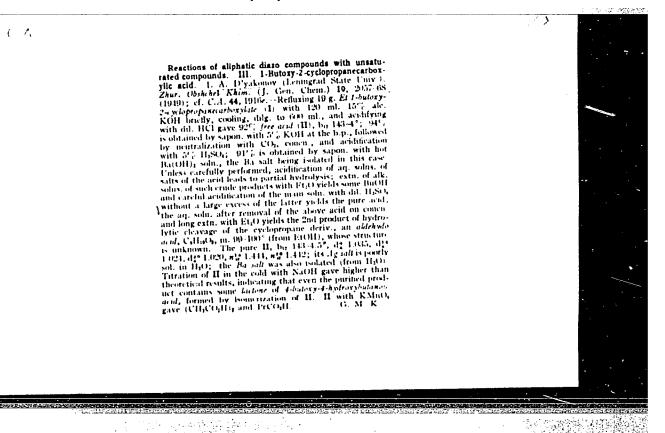




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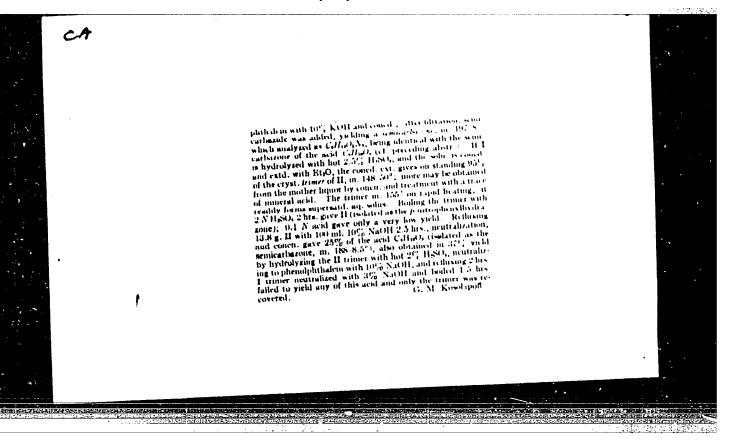
Reactions of aliphatic diaso compounds with unsaturated compounds. IV. Hydrolysis of 2 - butory-geopropanicarboxylic acid and its esters. 1. A. II 'vaknotor and N. A. Lugovinova (A. A. Ahdanov State Univ., Leningiwi). Zhar. (1904kb) Khon (1. Cen. Chem.) 20, 2835-47 (1880); cf. C. A. 44, 7248b.—Boding 30 g. 2 - butory-geopropanar-boxylic acid (1) with 230 ml. 0.1 N H<sub>2</sub>SO<sub>4</sub> with stirring until a clear soln. formed, cooling, neutralizating, and steam distg. gave 82% BuOH; concu. and acidification of the residue with 10% H<sub>2</sub>SO<sub>4</sub> and thorough extn. with Et<sub>2</sub>O gave atthey vellowish crystals, which after repeated crystn. from BtOH. C.H., m. 181 [137] (vield, 3.7 g.). The compd. is an acid. (i.H.al.), (II), forming a 1g sid, giving a C.H.O group test, forming a teminar-busines, in 107.3° (from RtOH), and a positiophes with witherose, decomp. 1988 (from RtOH). II has a double bond, adds 2 H, decolorizes Br-CHCl<sub>1</sub>, and reacts

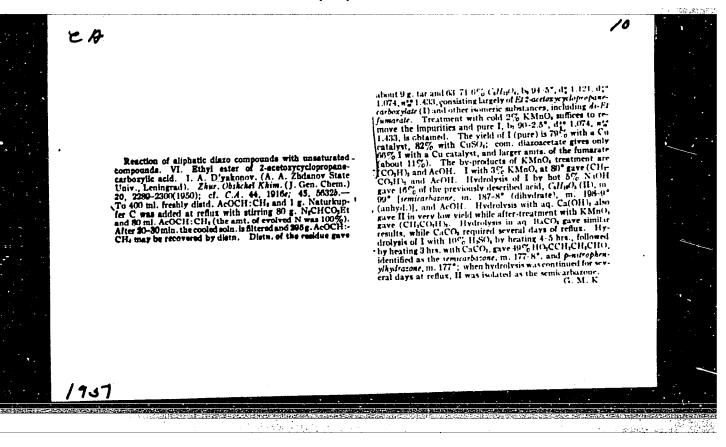
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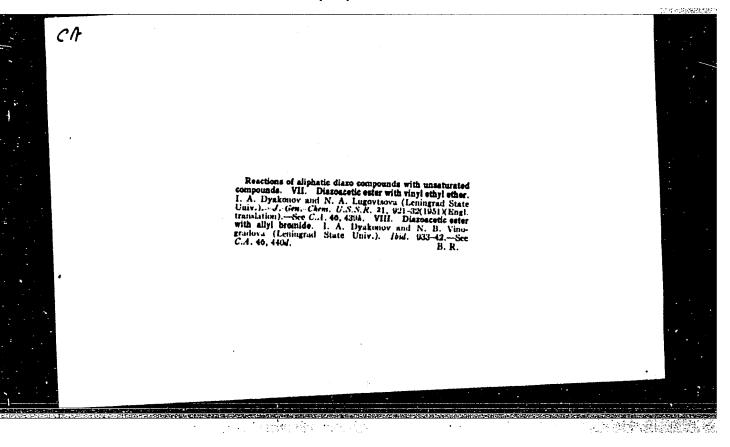
with KMnO<sub>3</sub>. The analysis of the p-nitrophenylhydrazone was 4% low in N<sub>3</sub> artiflutable to the pressure of difficulty removable impurities. With 30% KMnO<sub>3</sub> II gave no neutral carbonyl compals, but did vield (CliftOd1)<sub>1</sub> (00%), and an acid which appeared to be close to AcOH, giving a mono-Ag salt. Hydrolysis of I Ft effer was very slow with hot 0.1 N H8O<sub>3</sub>, but 2 N H8O<sub>3</sub> gives complete hydrolysis in 1 hr., yielding the same II (isolated as the p-nitrophenyl in 1 hr., yielding the same II (isolated as the p-nitrophenyl hydrazone), as well as ButOH, the videl of II was 54.4% crude, and 34.8% pure product, in Siture. The behavior of II suggests its structure is that of a crotonic-type condense of II suggests its structure is that of a crotonic-type condense of II suggests its structure is that of a crotonic-type condense of II suggests its structure is that of a crotonic-type condense of II suggests its structure is that of a crotonic-type condense of II suggests its structure as that of a crotonic-type condense of II suggests its structure as that of a crotonic-type condense of II suggests its structure as that of a crotonic-type condense of II suggests its structure as that of a crotonic-type condense. A crotonic-type condense of II suggests its structure as that of a crotonic-type condense.

Reflixing 2. g. 2 Introversy lopropaine observing and 31 with 20 mt 20% ACMI 3 has a country and the atmost with HNCONTINII, 10 Pages 50% and knd doctors, and 1.77% was obtained, although its analysis was ming as in 1.77% was obtained, although its analysis was ming as frequential min 1.77% was obtained, although its analysis was ming as more standing formed a trainer, in, 10.5.7.5% (from H2), on standing formed a trainer, in, 10.5.7.5% (from H2), in the over-all yield of this was 25%, part of the free II minimum and not polymetry, indicting impurities, although addit of a trace of and did cause adult polymetry, in though addit of a trace of and did cause adult polymetry time. Boding I with 0.1.8 M H30, results give II conditions the p-introphenyllhydration of a bar obtained in low yield by stirring 3 hrs. at room temp, with 0.2.8 M H30, B is fluxing 2.3 g. Er ester of I with 100 mt 2.8 M H30, 3 hrs give a clear solit which was divided, one part was treated with CaCts to remove S0, not and the filtrate was neutralized with chilk with hearing and treated with such child with child with earing and treated with some attained which that with learning and treated with some attained to phonol.

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Reactions of aliphatic diazo compounds with unsaturated compounds. IX. Reaction of diazoacetic ester with allyl alcohol in the presence of copper. I. A. D'yakonov and N. D. Pirogova (A. A. Zhdanov State-Einty,-Leningrad). Zher. Oshkelet Khim. (J. Gen. Chem.) 21, 1970-86(1951); cf. C.A. 46, 4404.—Addn. of 149 g. NrCHCO<sub>1</sub>Et in 120 ml. CH;:CHCH<sub>2</sub>OH to a refuxing mixt. of 800 ml. CH<sub>3</sub>:CHCH<sub>2</sub>OH and 0.4 g. Cu powder gave 33% N, with some 480 pal. recovered CH;:CHCH<sub>2</sub>OH; distn. of the preducts gave \$2.5% & allylonyacetals, b. 66-6°, b. 72-4°, div

0.0620, mtg 1.4233, and some dark viscout matter which contained a higher-boiling cyclic deriv. (see below). Hydrodysis of the ester with RtOH-KOH gave allyiexpassis exid, be 108-50°, dt° 1.0905, mtg 1.400, yielding an unstable Ag seh. The acid with KMnO<sub>2</sub> gave HCO<sub>2</sub>H and (CO<sub>2</sub>H); cosmolysis agave much HCO<sub>2</sub>H and unknown products. The acid with dry HBr gave allyl brombte and polyglycolide, (CAH<sub>2</sub>O<sub>2</sub>), m. 170°, which, heated with PhNH<sub>2</sub>, gave glycolonides, m. 08-6°; if the HBr treatment is done at elevated temp, it is possible to isolate glycolic anhydride, m. 128-9°. When the dark viscous reaction by-product (see above) was heated in name it yielded some 7% Et brans-2(hydroxymethyl)-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with KMnO<sub>2</sub> gave 85°, brans-1,2-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with KMnO<sub>2</sub> gave 85°, brans-1,2-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with KMnO<sub>2</sub> gave 85°, brans-1,2-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with KMnO<sub>2</sub> gave 85°, brans-1,2-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with kMnO<sub>2</sub> gave 85°, brans-1,2-cyclopropanecarboxylate, b, 113-19°, dt° 1.0764, mtg 1.454, which with allyl alcohol. 1. A. D'yakouov. Ibid. 1986-95.—Addn. ol 37 g. PhyCN<sub>2</sub> in 40 ml. CH<sub>1</sub>: CHCH<sub>2</sub>OH to 200 ml. refluxing CH<sub>2</sub>: CHCH<sub>2</sub>OH, while the mother liquor gave after repeated fractionation 31.8% PhyCH-OCH<sub>3</sub>CH, CH<sub>2</sub>CH, b, 1, 310°, b, 188-8.5°, dt° 1.053, mtg 1.564 CH<sub>2</sub>CPh<sub>2</sub>. CHCH<sub>2</sub>OH, b, 1 180°, dt° 1.072, mtg 1.581

CH3. CPh. CHCH3OH, b.,a 160°, di° 1.072, w? 1.581 (3.5-disitrobensoals, m. 140°); the alc. with KMnO, gave 22% 2.3-diplemplexelopropanecarboxylic acid, m. 170-1°, whose Ag salt was analyzed; the latter is rather sol. in H.O. The alc. falled to give a bromide with Phr., yielding decomps, products and polymers; under the best conditions, without much excess PBr3, only amall amts. of crude products, b.-a 103-0°, contg. a little Br were obtained. At a tempted dehydration of the alc. with KHSO, gave an undistillable gum.

DIYAKONOV, I. A.

"On the reactions of aliphatic diazocompounds with unsaturated compounds. X. The Investigation of the reaction of diphenyl-diazomethane with allyl alcohol." (p. 1986)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 11.

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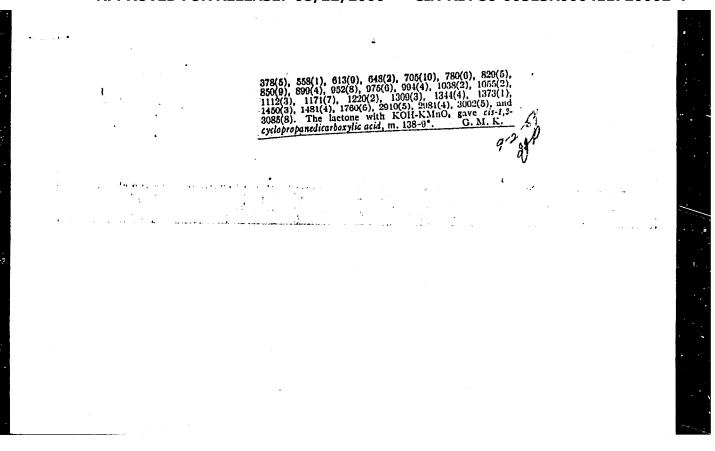
D'IKKONOV, I. A.

Reactions of aliphatic diaro compounds with unsaturated compounds. Al. The reaction of diarosacetic ester with ally chloridg. I. A. D'yakonov and N. B. Vinogradova (Leffingrad State Univ.). Zeniv. Obshchet Khim. (J. Gen. Chem.) 22, 1349-53 (1952); cf. C.A. 46, 6591b, 7002e.—To 600 g. refluxing CH<sub>2</sub>: CHCH<sub>1</sub>Cl and 2.4 g. (CuCl), (Naturcupfer C gives similar results) was slowly added 188.8 g. N<sub>2</sub>CH-CO<sub>2</sub>Et in an equal vol. of CH<sub>2</sub>: CHCH<sub>1</sub>Cl; 85% N is collected at this stage and the catalyst assumes an orange color and part of it goes into soln.; treatment with 1:1 HCl and washing with Na<sub>2</sub>CO<sub>2</sub> gives 16.7 g. EiO. CCH<sub>2</sub>Cl; 16 g. CH<sub>2</sub>: CHCH<sub>2</sub>CHClCO<sub>1</sub>El, b<sub>10</sub> 66-7° g. d<sup>20</sup> 1.0530, n<sup>3</sup>8 1.4400; 11.9 g. Et 2-(chloromethyl)cyclopropancearboxylate (I), b<sub>1</sub> 82-4°, d<sup>3</sup>0° 1.1001, n<sup>3</sup>8 1.4560 (which, refluxed 1 hr. with MeOH-kOH gave oily 2-(hydroxymethyl)cyclopropancearboxylic acid (II), whose Ag salt was isolated); and 40.6 g. mixed di-Et fumarate and the above ester. II with KhnO<sub>1</sub> gave trans-1,2-cyclopropanedirarboxylic acid, m. 172°. I is not altered by refluxing with CH<sub>2</sub>: CHCH<sub>2</sub>Cl and (CuCl). The crude di-Et fumarate was identified in the mixt. after hydrolysis to the free acid. CH<sub>2</sub>: CHCH<sub>2</sub>CH Br and N<sub>2</sub>CHCO<sub>2</sub>Et with a Cu catalyst similarly gave CH<sub>2</sub>: CHCH<sub>2</sub>CHBrCO<sub>2</sub>Et, b<sub>11</sub> 78-0°, and EtO<sub>2</sub>CCH<sub>3</sub>Br, the latter being formed only in small amounts. XII. Condensation reactions of diphenyldiazomethane and diazoacetic ester with allyl acetate. I. A. D'yakonov and O. V. Guseva. Ibid. 1355-62.—Refluxing CH<sub>1</sub>: CHCH<sub>2</sub>OAc, b. 163-1.5°, dl. 0.9277, n.Y 1.4047 (76 ml.), treated slowly with 33 g. Ph<sub>2</sub>CN<sub>3</sub> (11) in an equal vol. of CH<sub>1</sub>: CHCH<sub>2</sub>OAc, gave N and turned pale yellow; the combined runs of several expts. (210.6 g. Ph<sub>2</sub>CN<sub>3</sub>) gave after conen. and dilin. with EtOH some 12 g. solid, which after crystn. from EtOH and EtOH-C<sub>4</sub>H<sub>4</sub>, was sepd. into impure ketazine, C<sub>2</sub>H<sub>2</sub>N<sub>4</sub>, m. 167-8°.

giving to depression with ketualia freps. from ale. lodine and PlaC: NNIIs (cf. Curtlus, et al., J. praki. Chem. (2) 44.

200(1801)), dud a smaller anti-of a product, m. 172-3°, having the same compn. but giving a depression with anothenic ketazine and yielding on hydrolysis with HsSO. PlaCO and NaII. II. SO., as well as (CHPh.), also obtained from the crade ketazine, m. 157-8°, above. Distan. of the mother liquor gave 163.7 g. 1-{acclaxyncthyl}-2,2-diphenyl-excloprapane, b. 165-7°, b.s. 147-50°, d2°-8° 1.0914, n3° 1.5620, which, hydrolyzed with McOH-KOH 1.5 hrs., gave the (hydroxyncthyl) analog, b.s. 165-7°, n3° 1.533 (3,5-dimitrobenzole, m. 140°). In addn. some 3.5% Phr. CO was obtained. Refluxing CH;: CHCH;-DAC (380 ml.) and 2 g. dry CuSO, treated with 136.9 g. N; CHCO; et in an equal vol. of CH;: CHCH;-DAC evolved some 33% N and the soln, yielded 70.6% crude El 2-(accloxyncthyl)cyclopropane-carboxylate, which after purification with 3% cold KMnO, gave the pure ester, b.s. 70-7°, bn 123-0°, b, 106-7°, d; s. 1.070, n; s. 1.4429, whose Raman spectrum had the lines (cm. -1) 636.4(3), 740(3), 840.9(1), 862.2(2), 889.7(2), 1033.4(2), 1093.9(2), 1118.5(2), 1202.9(3), 1455(3), 1455(5), 1723.7(3), 2948(5), and 3137(4). The ag. soln, from the purification yielded some (CO; H). The cyclic ester refluxed with 2 N KOH until it was transparent gave, after careful neutralization and evapn., 55.7% trans-2-(hydroxymethyl)cyclopropane(arobxylic acid, m. 64-5°, which with 3% KMnO, gave trans-1,2-cyclopropanedicarboxylic acid, m. 64-5°, which with 3% KMnO, gave trans-1,2-cyclopropanedicarboxylic acid, m. 64-6°, which with 3% KMnO, gave trans-1,2-cyclopropanedicarboxylic acid, m. 64-6°, which with 3% KMnO, gave trans-1,2-cyclopropanedicarboxylic acid, m. 64-6°, which with 3% KMnO, gave trans-1,2-cyclopropanedicarboxylic acid, m. 64-6°, which yelle neid solidified after drying in vacuo and gave, in addu. to 7 g. of the above acid, some 17 g. cis-(2-hydroxymethyl)-1,2-cyclopropanedicarboxylic acid, m. 64-6°, which yelle neid soli

3) 8°



DIAKONOV, I. A .: GUSEVA , O. V.

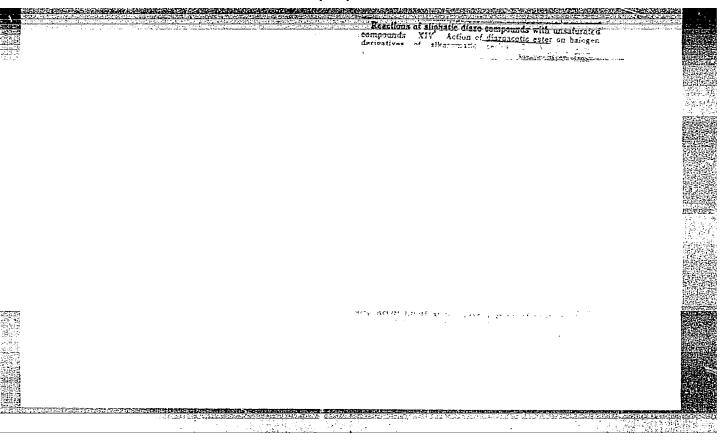
Diazo Compounds

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 12. Investigation of reactions of condensation of diphenyldiazomethane and diazoacetic ester with allyl acetate. Zhur, ob. khim., 22, No. 8, 1952, p 1355.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

Chemical Abst. Vol. 48 No. 3 Feb. 10, 1954 Organic Chemistry Reactions of aliphatic diazo compounds with unsaturated compounds. XIII. Reaction of diazotetic ester with ally liquide and with normal and tertary buyl bromides in the presence of copper catalysts. I. A. Dyskonov and N. B. Vinogradova (A. A. Addanov Mate Univ. Lenings, 1988). Zhar. Obshchel Khim. 23, 68-71(1953); cf. C.A. 47, 4293c.—To 560 g. dry CH<sub>1</sub>: CHCH<sub>1</sub>: and 0.8 g. Bus bronze was added at reflux 175 g. N<sub>1</sub>CHCO<sub>1</sub>Bt and 175 g. CH<sub>1</sub>: CHCH<sub>1</sub>: 29.51. N were collected during the ensuing reaction and dista. of the filtrate gave 70% CH<sub>1</sub>: CHCH<sub>1</sub>: CHCH<sub>1</sub>: 29.51. N were collected during the ensuing reaction and dista. of the filtrate gave 70% CH<sub>1</sub>: CHCH<sub>1</sub>: CHCH<sub>2</sub>: b<sub>1</sub> 65-82°; redista. gave 47% of pure ester, b<sub>1</sub> 65-6°, n<sup>1</sup>8° 1.5062, dus 1.558. Some 25 g. crude ICH<sub>1</sub>: CO-Et was also obtained. The ester refluxed in EtOH-65% AcOH with Zn dust gave 65.2% CH<sub>1</sub>: CHCH<sub>1</sub>: Ch<sub>2</sub>-Et was also obtained. The ester refluxed in EtOH-65% AcOH with Zn dust gave 65.2% CH<sub>1</sub>: CHCH<sub>1</sub>: Ch<sub>2</sub>-Et with 10% K<sub>1</sub>-CO<sub>2</sub> gave the free acid, CH<sub>2</sub>: CHCH<sub>1</sub>: Ch<sub>2</sub>-Et with 10% K<sub>1</sub>-CO<sub>2</sub> gave the free acid, CH<sub>2</sub>: CHCH<sub>1</sub>: CH<sub>2</sub>-CH<sub>2</sub> (OH) CO<sub>2</sub>H, which gave an anilide, m. 74-5°, in very low yield; most of the acidic material polymerized, yielding what was evidently polyvinylacrylic acid. Reaction of 360 g. Mc<sub>2</sub>-CBr with 135.7 g. N. CHCO<sub>2</sub>-Et in the presence of 0.5 g. dry CuSO<sub>2</sub> gave 15.1 g. Br CH<sub>1</sub>-CO<sub>2</sub>-Et, b. 150-60°, n<sup>1</sup>8° 1.445; dre shaking with cold KhmO<sub>4</sub> to remove unsatd. by-products the pure ester, b. 150-60°, n<sup>1</sup>8′ 1.4485; treated with Zn-AcOH it gave AcOH; the higher-boiling fractions from the above condensation gave 20.2 g. di-Et fumarate, b<sub>1.4</sub> 65°, d<sub>10</sub>° 1.0503, n<sup>1</sup>8′ 1.4410. Similar reaction with BuBr gave 37.2% di-Et fumarate when Cu bronze was used as catalyst. The probable courses of the above reactions are discussed. Probably the haloacetates are formed in these reactions by interaction of unused diazonacetate with the already formed aliyl haloacetate through letterolytic cleavage of CX and CH lin

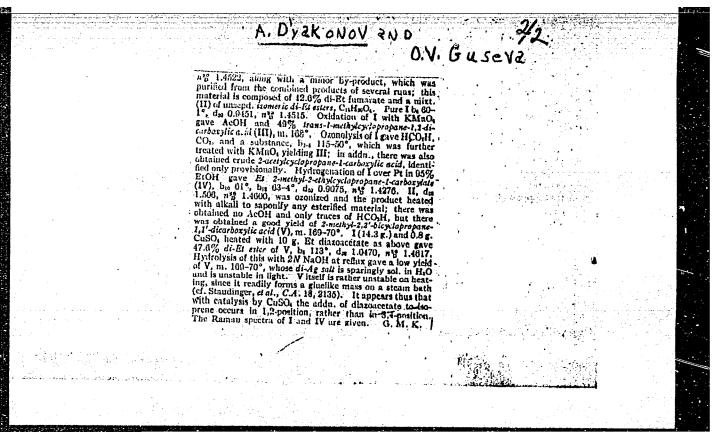
MAF.



Reactions of aliphalic diazo compounds with unsaturated compounds. XV. Irans. 2. (Halomsthyle-pelopropane. 1. carboxylic acids and their esters. 1. A. D'victorov and O. V. Guseva (A. A. Zhdanov Stale Univ. Teningrad). Starik Statel Obshchet Khim., Akad. Noah S.S.S.R. 1. 425-33 (1953); cf. C.A. 48, 3318i.—Reactions of 2-hydroxymethyl- and 2-halomethyle-yelopropane-1-carboxylic acids or their esters are not accompanied by isomerizations or rearrangements in contrast to the observations of Dem'yanov on a-hydroxy(cr halosalkyl cyclopropanes. To 23.2 g. 2-hydroxymethyle-yelopropanecarboxylic acid (1) was slowly added 9.1 g. PCl., the mixt. heated until HCl evolution ceased at 50-5°, then treated with 27.5 g. PCl, and heated further 3 hrs. finally to 89°; on cooling the liquid was decented into ice H<sub>2</sub>O, while the solid material was similarly hydrolyzed; extn. with Crif. gave 25-30% crude product, which gave 12-15% pure trans-2-chloromethyle-yelopropane-1-carboxylic acid (11), m. 90-5-1.5° (from CHCl-petr. ether), Raman spectrum given. The acidic aq. mother liquor on treatment with NaHCO, followed by prolonged extn. with Et<sub>1</sub>O gave 40% original I, m. 93-4°. The yields of the Cl deriv were not improved by using various solvents c 'tighter temp. To a liquid mixt. of SOCl.-POCl, obtained from 65 g. PCl, was added 15 g. I at 0°, followed by 11 g. pyridine, the mixt was then slowly heated to 90° and kept there until gas evolution stopped; the mixt. was filtered and the filtrate treated with ice H<sub>2</sub>O yielding 99% II, m. 90-5-1.5°. Oxidation of 3 8 g. II with 3% KMnO, in 10% KOH gave trans-tynlop-pane-1,2-dicarboxylic acid (III), m. 104-9° (crude), pure, m. 174-5°. To 5 g. Na dissolved in 90 ml. EtOH was a ided 9 1 g. II and the mixt. refluxed 3 hrs., yielding after extralozation, evapu, and acidification, 193-8% Irans-3-

cthoxymethyleyelopropaine-1-carboxylie acid, b. 87°, w. 1.4535, m. 1.6° 1.4525, d. 1.505; after stainting the product solidified, m. 41° (from petr. ether). The same product forms in 42% yield from II and KOH soln in als. E10H after 2 hrs. reflax. Oxidation of the product with KMnOq gave III. To 3.48 g. I was added 21.6 g. Phr, and the mixt. was briefly heated to 95°, cooled and treated with ice, yielding an oily acyl bromide, which on gentle warming in H<sub>2</sub>O gave 78.2% from 3-2-bromomethyleyelopropane-1-carboxylie acid, m. 97.5-8° (from CHCh-petr. ether). If the intermediate reaction mixt. is treated with abs. E10H instead of ke, there is formed 33% fa cute of town. 4.5 announcethyleyelopropane 1-carboxylie acid, b. 103°, d.

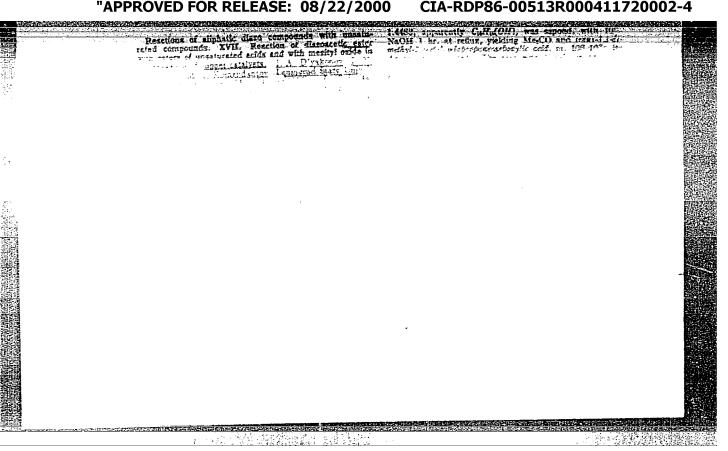
instead of ke, there is formed 31% for each with abs. Et 011 instead of ke, there is formed 31% for each of them. I be formed 31% for each of the formed 41.303, day 1.4778; the product yields AgBr on treatment with AgNO, Raman spectrum given. This (4.14 g.) added to 1.5 g. Na in abs. EtOH and refluxed 1.5 hrs. gave the above described transaction and the formed action of the formed actions. Treated with NaOEt in EtOH it gave 67.2% IV. Refluxing I with 10% H.SO, 0 hrs. gave 70% original acid, but the use of 25% H.SO, prevented the recovery of I. FVI. Reaction of diaxoacetic ester with isoprene and the derivatives of cyclopropane and hicyclopropane. I. A. D'yakonov and V. E. Myrnikova. Ibid. 489-97; cf. C.A. 47, 4293c.—To 100 g. CH3: CMCCH: CH4 and 0.5 g. dry CtSO, under N was added at reflux 87 g. Bt diazoacetacter olution of N usually did not begin even after 30-50% of the ester has been added; the reaction is initiated by the adduction period is reduced by the estar has been added. Induction period is reduced by the catalyst very significantly. After 4-0 hrs. some 80% N had been evolved; evapa, of the reduced by the catalyst very significantly. After 4-0 hrs. some 80% N had been evolved; evapa, of the reduced by the catalyst very significantly. After 4-0 hrs. some 80% N had been evolved; evapa, of the reduced by the catalyst very significantly. After 4-0 hrs. some 80% N had been evolved; evapa, of the reduced by the catalyst very significantly.

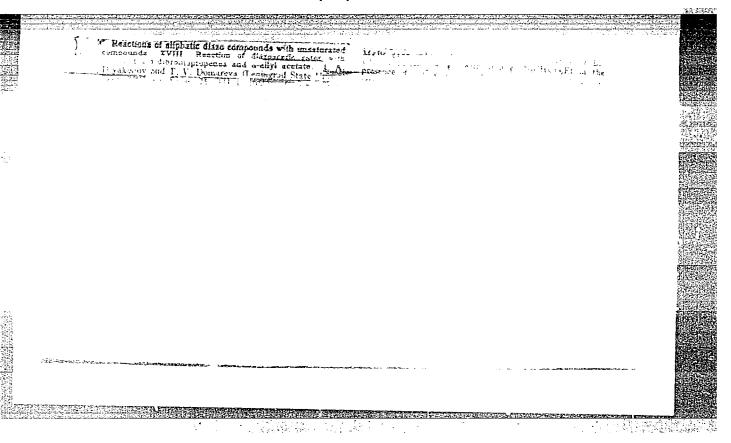


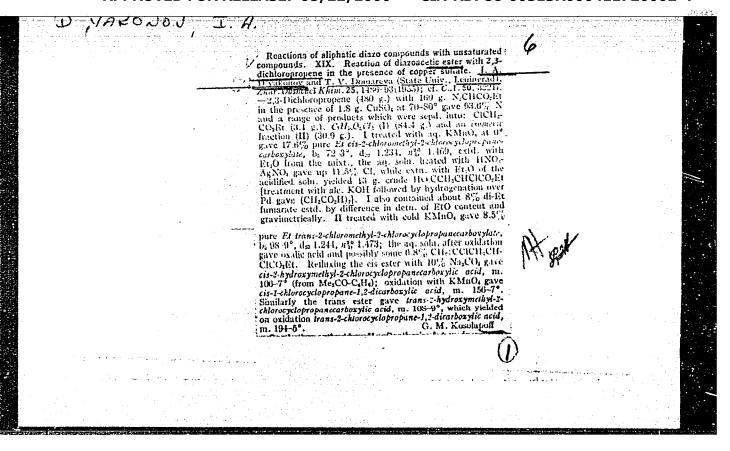
D'YAKONOV, I. A. and MYZNIKOV, V. F.

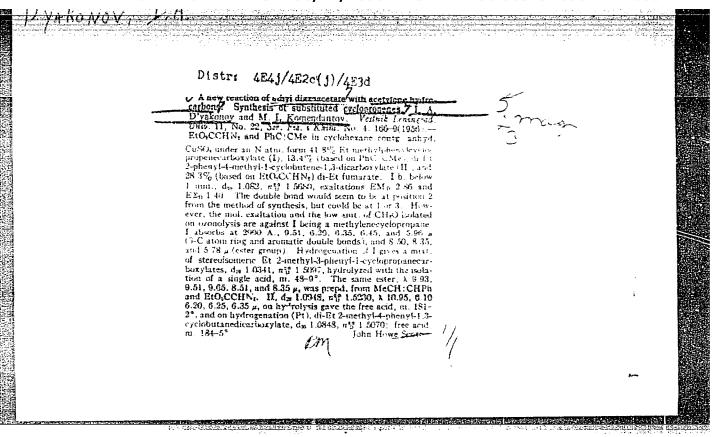
On Reactions of Aliphatic Diazo Compounds with Unsaturated Compounds. XVI. On the Reaction of Diazo Acetic Ester with Isoprene and on Derivatives of Cyclopropane and B<sub>1</sub>-Cyclopropane, page 489, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766.

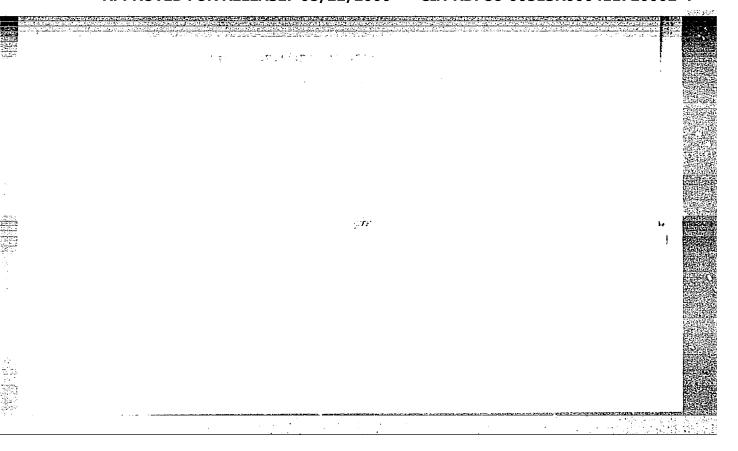
Chair of the Structure of Organic Compounds, Leningrad State U











# PHASE I BOOK EXPLOITATION 977

#### D'yakonov, Ivan Aleksandrovich

Alifaticheskiye diazosoyedineniya; stroyeniye, svoystva i reaktsii (Aliphatic Diazo Compounds; Structure, Properties and Reactions) [Leningrad] Izd-vo Leningradskogo univ-ta, 1958. 137 p. 2,000 copies printed.

Sponsoring Agency: Leningrad. Universitet

Ed.: Shchemeleva, Ye.V.; Tech. Ed.: Vodolagina, S.D.

PURPOSE: This book is for research students, scientists, and non-specialists in the field of organic chemistry.

COVERAGE: This book discusses the structure and reactivity of aliphatic diazocompounds, describes their physical and chemical properties, and includes certain reactions which are not sufficiently covered in the existing literature. The main object of the book is to present the theoretical problems in the study of the structure, properties, and reactions of aliphatic diazocompounds. The results of physical computations (the determination of interatom space and dipole moments) in some cases do not fully agree with the representation of compounds by chain formulas. An explanation for the contradiction between experimental data and theoretical claims was attempted by sev-Card 1/3

Aliphatic Diazo Compounds (Cont.)

977

eral authors on the basis of the "theory of electron resonance", while others offer no solution at all (see Chichibabin, A.Ye., Osnovym nachala organiches-kov khimii, 5th Ed., Vol. 1, Mos.-Lening. (Goskhimizdat) 1953, pp. 663. The authors of this volume have solved this problem by expressing the structural formula of diazomethane graphically. There are also considerations given for expressing both the static and dynamic states of organic compounds. Reactions of important preparative value, for example, the reactions with olefins which yield cyclopropane derivatives or reactions with aromatic hydrocarbons which aid in the synthesis of bicyclic compounds and others are given special consideration. The author has brought the book up to date by rewriting Chapter 11 and adding to Chapter 9. M.I. Komendantov participated in the editing of the manuscript. There are 14 tables and 332 references, 79 of which are Soviet, 129 German, 107 English, 8 Swiss, 3 Dutch, 5 Italian and 1 Czech.

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Ch. 4.	Determination of Structure by Means of Physical Methods	28
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AVAIIABLE: Library of Congress TM/fal Card 3/3 2-5-59		

D'YAKONOV, I. A. Doc Chem Sci -- (diss) "Study in the field of aliphatic diazo compounds and low-stability cyclopropane derivatives." Len, 1959. 48 pp (Len Order of Lenin State Univ im A. A. Zhdanov), 150 copies. Bibliography: pp 47-48 (28 titles) (KL, 45-59, 143)

-9-

5(2) AUTHORS:

D'yakonov, I. A., Komendantov, M. I.

SOV/79-29-5-72/75

TITLE:

Letters to the Editor (Pis'ma v redaktsiyu). Reaction of Diazoacetic Ester With Acetylene Hydrocarbons (Vzaimodeystviye diazouksusnogo efira s atsetilenovymi uglevodorodami)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1749 - 1751

(USSR

ABSTRACT:

An earlier publication (Ref 1) reported of the production of 3-methyl-2-phenyl cyclopropene carboxylic acid ester. The physical constants of the compound were determined anew and were found to deviate from the earlier data. American authors described 2,3-diphenyl- $\Delta_2$ -cyclopropene-1-carboxylic acid

ester (Ref 2). The results obtained here do not agree. Synthesis, melting point, boiling point, analysis and infrared spectra are given. Chemical and spectral analysis render the following formula probable:

H<sub>5</sub>C<sub>6</sub> - C - CH - C<sub>6</sub>H<sub>5</sub>

Card 1/2

Letters to the Editor. Reaction of Diazoacetic Ester With Acetylene Hydrocarbons

307/79-29-5-72/75

There are 2 references, 1 of which is Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED:

January 19, 1959

Card 2/2

5 (3) Al'THORS:

Diyakonov, I. A., Domareva, T. V.

501/79-29-3-63/76

TITLE:

On the Reaction of Diazoacetic Ester with 9-rhenyl- and 9-(p-toly1)-9-bromofluorenes. Synthesis of the Fluorene

and Phenanthrene Derivatives

PERIODICAL:

Whurnal obsachey khimii, 1959, Vol 29, Jr 9, pp 3098-3105(USSR)

ABSTRAJT:

It was reported recently that in the reaction of diazoacetic ester with 9-bromofluorenes in the presence of copper sulphate (Ref 1) only 9,9'-diffuoryl and bromoacetic ester was obtained instead of the condensation product to be expected, i. e. the ester of 9-rluoryl promoacetic acid (CoH4)2CHCHBr000C2H5.

The authors explain this result by the insufficient stability of the free fluoryl radical which is formed in the chain reaction with diazoacetic ester (Ref 1). Since it was to be expected that the introduction of the aryl group into position 9 increases the stability of the radical, the reaction with 9-aryl-9-bromofluorenes should yield higher results. The present paper is intended to give an experimental proof on this assumption. It is shown that in the condensation of diazoacetic ester with 9-phenyl-9-bromorluorene in the presence of copper sulphate the ethyl ester of 9-phenylphenanthrene-10-carboxylic acid (I) is formed. In this case the five-

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307/79-29-9-63/76

On the Reaction of Diazoacetic Ester With 9-Phenyl- and 9-(p-tolyl)-9-bromofluorenes. Synthesis of the Fluorene and Phenanthrane Derivatives

membered cycle of the fluorenyl residue expands into a sixmembered one (Scheme 2). The reaction of diazoacetic ester with 9-(p-toly1)-9-bromofluorene takes place in two directions: 1) expansion of the cycle and formation of the ethyl ester of 9-(p-toly1)-phenenthrene-10-carboxylic acid (III) and 2) rearrangement of the tolyl group and formation of the ethyl ester of  $\alpha$ -(p-talyl)- $\beta$ ,  $\beta$ -diphenyl acrylic acid (IV) (Scheme 2). According to the earlier concept of the authors concerning the free radical chain mechanism of the reactions of diazoacetic ester with halogen derivatives of the hydrocarbons (Ref 1) taking place in the presence of copper, the reaction mechanism of the diazoacetic ester with 9-phenyl and 9-(p-toly1)-9-bromofluorene can be represented according to the total scheme on page 3100. The following compounds were newly synthesized: the ethyl esters of 9-phenyl- and 9-(p-tolyl)-phenanthrene-10-carboxylic acid; 9-(p-tolyl)--phenanthrene-10-carboxylic acid;  $\alpha$ -(p-toly1)- $\beta$ ,  $\beta$ -aiphenylene acrylic acid; 1,2,5,4-dibenzo-7-methylfluorenone and 9-(p-tolyl)-9-bromofluorene.

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 ${\tt SOV/79-29-9-63/76}\\ {\tt On the Reaction of Diazoacetic Ester With 9-Phenyl- and 9-(p-tolyl)-9-bromofluorenes. Synthesis of the Fluorene and Phenanthrene Derivatives}$ 

There are 15 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED: September 9, 1958

Card 3/3

D'YAKONOV, I.A.; FAVORSKAYA, I.A.; DANILKINA, L.P.; AUVINEN, E.M.

Reaction of dichlorocarbene with enyne hydrocarbons. Zhur.ob. khim. 30 no.10:3503-3504 0 161. (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet. (Carbene) (Pentenyne) (Hexenyne)

D'YAKONOV, I.A.; FU GUY-SIYA; KORICHEV, G.E.; KOMENDANTOV, M.I.

Stereoselective course of the reaction between carbethoxycarbene and steroisomeric 1,2-diphenylethenes. Zhur. ob. khim. 31 no.2:681-683 F '61. (MIRA 14:2)

1. Leningradskiy gosudarstvennyy universitet.
(Carbene) (Ethylene)

D'YAKONOV, I.A.; KOMENDANTOV, M.I.

Remarks concerning the article by Breslow and Chipmen "Synthesis of derivatives of cyclopropene according to D'iakonov." Zhur.ob.khim. 31 no.10:3483-3485 0 '61.

(MIRA 14:10)

(Cyclopropene)

D'YAKONOV, I.A.; KOMENDANTOV, M.I.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 20: Reaction of ethyl diazoacetate with 1-phenylpropyne in the presence of copper sulfate. Zhur.ob.khim. 31 no.12:3881-3893 D \*61. (MIRA 15:2)

1. Leningradskiy gosudarstvennyy universitet.
(Diazo compounds)
(Propyne)
(Acetic acid)

33924 S/079/62/032/002/011/011 D243/D303

5.3832 AUTHORS:

D'yakonov, I.A., Nizovkina, T.V. and Kornilova, T.A.

TITLE:

Reaction of dichlorocarbene with chloroprene

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 2, 1962, 664-665

TEXT: The authors wished to confirm that dichlorocarbene, on reacting with chloroprene, joins in the 1,2 position. Investigation showed that this occurred, 1,2, 2-trichloro-l-vinyloyclopropane (I) being formed - a

(I)

colorless liquid which darkens in air and forms a solid polymer. B.p. =  $63-63.5^{\circ}$  at 25 mm Hg;  $44^{20} = 1.3330$ ,  $n_{\rm p}20=1.5007$ . On ozonization of (I) or its oxidation by aq.KMnO4 (II) was obtained which is described for the first time; m.p. = 94.95°C (from

hexane).

Card 1/2

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S/079/62/032/002/011/011 D243*0*303

Reaction of dichlorocarbene ...

It is concluded that of the two chloreprene double bonds, the bond at the 1,2 position is more nucleophilic than that at the 3,4 position. The steric factor which depends on the presence of a chlorine atom at the second carbon atom of the chloroprene molecule, does not play an

С1 С1 Н<sub>2</sub>С-С-СООН

important role in determining the reaction's direction. There are 10 references: 3 Sowiet-bloc and 7 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: M.Orchin and E.C. Herrick, J.Org.Ch., 24,139 (1959); A. Ledwith and R.M. Bell, Chem.a. Ind., 1959; 459; W.E. Parham and E.E.Schweitzer, J.Org.Ch., 24,1733(1959); W.V. Detring and W.A. Henderson, J.Am.Chem.Soc., 80, 5274, (1958).

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED July 14, 1961

Card 2/2

D'YAKONOY, I.A.; KOMENDANTOV, M.I.; KORSHUNOV, S.P.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 21: Reaction of diazoacetic ester with 1-phenylpropyne in the presence of small amounts of copper sulfate or without catalysts. Zhur.ob.khim. 32 no.3:923-928 Mr '62. (MIRA 15:3)

(Acetic acid) (Propyne)

D'YAKONOV, I.A.; KOMENDANTOV, M.I.; FU GUY-SIYA; KORICHEV, G.L.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 22: Catalytic condensation of diazoacetic ester with cis- and trans-stilbenes and 4-octenes. Synthesis of new derivatives of cyclopropane. Zhur.ob.khim. 32 no.3:928-939 Mr '62. (MIRA 15:3)

1. Leningradskiy gosudarstvennyy universitet.
(Acetic acid) (Unsaturated compounds) (Cyclopropane)

D'YAKONOV, I.A.; DANILKINA, L.P.

Reaction of dichloro- and carbethoxycarbene with 2-methyl-1-penten-3-yne. Zhur.ob.khim. 32 no.3:1008-1009 Mr '62. (MIRA 15:3)

1. Leningradskiy gosudarstvennyy universitet.
(Carbene) (Pentenyne)

KOSTIKOV, R.R., DIYAKONOV, I.A.

Synthesis of 1-methylol-2, 3, dl-n-hatyl-2-cyclopropene and storeoisomeric 1-methylol-2, 3-di-n-hatylcyclopropenes. Zhur.ob. khim. 32 no.7:2389-2390 31 462. (MINA 15:7)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclopropene) (Cyclopropane)

D'YAKONOV, I.A.; BEGIDOV, S.Kh.; DOMAREVA, T.V.

Reaction of dicyclopropyl ketone with magnesium bromoalkyls, and synthesis of 1, 1-dicyclopropyl-1, 3-butadiene. Zhur.ob.khim. 31 no.10:3479 0 '61. (MIRA 14:10)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova. (Ketone) (Magnesium compounds) (Butadiene)

D'YAKONOV, I.A., prof.

Some reactions of methylene radicals. Zhur. VKHO 7 no.4:436-447 '62. (MIRA 15:8)

D'YAKCNOV, I.A.; BEGIDOV, S.Kh.

Synthesis of ditertiary acetylenic \( -glycols containing cyclopropyl radicals. Vest. LGU 17 no.16:158-159 '62.

(Glycols) (Radicals (Chemistry))

D'YAKONOV, I.A.; NIZOVKINA, T.V.; GREBENKINA, V.M.

Addition of the carbethoxycarbene to chloroprene. Zhur.ob.khim. 32 no.10:3450 0 '62. (MIRA 15:11)

1. Leningradskiy gosudarstvennyy universitet.
(Carbene) (Chloroprene)



D'YAKONOV, I.A; GOLODNIKOV, G.V.; REPINSKAYA, I.B.

Reaction of diazoacetic ester with trimethylvinylsilane catalyzed by copper sulfate. Zhur.ob.khim. 32 no.10:3450-3451 0 '62. (MIRA 15:11)

1. Leningradskiy gosudarstvennyy universitet.
(Serine) (Silane)

D'YAKONOV, I.A.; KOMENDANTOV, M.I.; RAZIN, V.V.

Synthesis of new derivatives of bicyclobutane. Zhur,ob.khim. 33 no.7:2420-2421 J1 '63. (MIRA 16:8)

1. Leningradskiy gosudarstvennyy universitet.
(Bicyclobutane)

GOLODNIKOV, G.V.; D'YAKONOV, I.A.; REPINSKAYA, I.B.; FOMINA, O.S.

Copper sulfate catalyzed reaction of diazoacetic ester with 3-trimethylsilyl-1-propene and 4-trimethylsilyl-1-butene.

Zhur.ob.khim. 33 no.7:2422-2423 Jl '63. (MIRA 16:8)

1. Leningradskiy gosudarstvennyy universitet.
(Silicon organic compounds) (Acetic acid)

BEGIDOV, S.Kh.; D'YAKONOV, I.A.; KOROBITSYNA, I.K.

Synthesis and dehydration of di-tertiary descriptions of distribution of distertiary descriptions of distribution of distribution of distributions descriptions descriptions descriptions described by the cyclopropyl radicals. Zhur.ob.khim. 33 no.7:2431 Jl '63. (MIRA 16:8)

1. Leningradskiy gosudarstvennyy universitet. (Glycols)

D'YAKONOV, I.A.; KOMENDANTOV, M.I.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 23: Reaction of ethyl ester of diazoacetic acid with diphenylacetylene. Zhur. ob. khim. 33 no.8:2448-2456 Ag '63. (MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet.

HEGIDOV, S.Kh.; DOMAREVA, T.V.; D'YAKOMUV, I.A.

Unsaturated hydrocarbons containing a cyclopropyl radical. Part 1: 1,1-Dicyclopropyl-1,3-butadiene, 2-cyclopropyl-2,4-pentadiene, and 1,1-dicyclopropyl-1-butene. Zhur.ob.khim.

33 no.10:3426-3433 0 163. (MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOV I.A.; DOMAREVA MANDEL'SHT'AM, T.V.; RAZIN, V.V.

Reaction of diazoacatic ester with 1,3-cyclohagadiene. Zhurobakhim. 33 no.10:3437-3438 0 163. (MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; GOLODNIKOV, G.V.; REPINSKAYA, I.B.; FOMINA, O.S.

Reactions of diphenylmethylene and carbethoxycarbene with alkenylsilanes. Zhur.ob.khim. 33 no.10:3438-3439 0 '63. (MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOY, I.A.; STROYMAN, I.M.

Preparation of 1,1-dicyclopropylethylene. Zhur.ob.khim. 33 no.12: 4019-4020 D '63. (MIRA 17:3)

1. Leningradskiy gosudarsvennyy universitet.

KOSTIKOV, R.R.; D'YAKONOV, I.A.

Dissociation constants of some substituted cyclopropane- and cyclopropenecarboxylic acids. Dokl. AN SSSR 149 no.4:853-855 (MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom B.A.Kazanskim.
(Gyclopropanecarboxylic acid) (Cyclopropenecarboxylic acid)
(Ionization)

BELEN'KIY, B.G.; VITENBERG, A.G.; D'YAKONOV. I.A.

Use of 1,2,3-tris-(2-cyanoethoxy)propane as a stationary phase for gas-liquid chromatography. Izv.AN SSSR. Ser.khim. no.1:193-195 Ja '64. (MIRA 17:4)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; DANILKINA, L.P.

Reactions of carbenes with diene, enyme, and digne systems.

Part 1: Reactions of dichloro-, dibromo-, and carbethoxycarbenes with 2-methyl-1-penten-3-yne. Zhur. ob. khim. 34 no. 3:738-748

Mr 164. (MIRA 17:6)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; FOSTIKOV, R.R.

Cyclopro mes and cyclopropenes. Part to Synthesia of stereolsomeric 1,2-di-n-butyleyclopropene-3-carboxylic acids and their esters. Zhur, ob. khim. 34 no. 5:1383-1389 My 164. (MIFA 17:7)

1. Leningradskiy gosudarstvennyy eniversitet.

D'YAKONOV, I. A.; KOSTIKOV, R. R.

Problem of obtaining double bond linkage in cyclegrapen). Af formation. Part 1: Attempting the synthesis of 2,3-dibutyl-1-methylene- and 2,3-dibutyl-1-diphenylmethylene-cyclograpenes. Zhur. ob. Khim. 34 no.6:1722-1726 Je '64. (Min. 17:7)

1. Leningradskiy gosudarstvennyy universitet.

DANGLORY, J. P. PYRESEY L.A.

Reaction of carbethoxycarbene and dichlorocarbene with 1-hexen-4-yme. Zhur. ob. khim. 34 no.9:3129-3130 S 164. (MIRA 17:11)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; KOSTIKOV, R.R.

New data on the synthesis of esters of stereoisomeric 1,2-dipropylcyclopropane-3-carboxylic acids. Zhur. ob. khim. 34 no.11:3843-3844 N \*64 (MIRA 18:1)

1. Leningradskiy gosudarstvennyy universitet.

KOSTIKOV, R.R.; D'YAKONOV, I.A.

Phenylbonzylcyclopropenone. Zhur. ob. khim. 34 no.11:3845-3846 N 164 (MIRA 18:1)

1. Leningradskiy gosudarstvennyy universitet.

KOMENDANTOV, M.J.; DIYAKONOW, I.A.; GOKHMANOVA, I.; KOSTIKOV, R.R.

Reaction of aliphatic diazo compounds with unsaturated compounds. Part 24: Reaction of diazoacetic ester with 5-decyne and 4-octyne. Nature and amount of a catalyst as influencing the course of the reaction. Zhur.org.khim. 1 no.2:200-219 F 165.

(MIRA 18:4)

1. Leningradskiy gosudarstvennyy unlversitet.

D'YAKONOV, I.A.; GOLODNIKOV, G.V.; REPINSKAYA, I.B.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 25: Reaction of diphenyldiazomethane with silicon olefins. Zhur.org.khim. 1 no.2:220-225 F .65.

1. Leningradskiy gosudarstvennyy universitet.

(MIRA 18:4)

D'YAKONOV, I.A.; REPINSKAYA, I.B.; GOLODNIKOV, G.V.

Trimethylsilylcarbene, a new methylene radical. 2hor. ob. knim. 35 no.1:199 Ja 165. (MIFA 18:2)

1. Leningradskiy gosudarstvennyy universitet.

DANILKINA, L.P.; D'YAKONOV, I.A.; ROSLOVICEVA, G.I.

Reactions of carbenes with diene, enyne and digne systems. Part 2: Reaction of dichlorocarbene with 3-methyl-3-penten-1-yne. Zhur.org.khim. 1 no.3:465-470 Mr 165.

(MIRA 1814)

1. Leningradskiy genudaratvennyy universitet imeni A.A.Zadanova.

LISHANSKIY, I.S.; ZAK, A.G.; D'YAKONOV, I.A.; ALIYEVA, T.G.

Synthesis of ethyl ester of 2-vinylcyclopropanecarboxylic acid. Zhur. org. khim. 1 no.7:1189-1193 Jl 165.

(MIRA 18:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; VITENBERG, A.G.; KOMENDANTOV, M.I.

Kinetics of catalytic decomposition of ethyl diazo acetate.

Part 1: Induction period. Zhur. org. khim. 1 no.7:1183-1188

J1 465. (MIRA 18:11)

1. Leningradskiy gosudarstvennyy universitet.

D'YAKONOV, I.A.; GOLODNIKOV, G.V.; REPINSKAYA, I.B.

Reactions of aliphatic diazo compounds with unsaturated compounds. Part 25: Reaction of ethyl ester of diazoacetic acid with trimethylvinyl-, trimethylallyl-, and trimethyl-/-butenylsilanes. Zhur.cb.khim. 35 no.12:2181-2189 D '65.

1. Leningradskiy gosudarstvennyy universitet. Submitted November 6, 1964.

SOV/115-60-1-17/28

AUTHOR:

D'yakonov, I. I.

TITLE:

(

Some Problems of Measuring Temperature in Rotating Ob-

jects

PERIODICAL:

Izmeritel'naya tekhnika, 1960, Nr 1, pp 36-40 (USSR)

ABSTRACT:

The article contains detailed information on a new method for measuring the temperature of rotating parts in high-speed gas turbines and permitting evaluation of thermal stresses. One variation of the method for use in the laboratory and on stationary machines entails non-distorting current collection in the rotating electric thermoconverters /Ref. 17. The sensitive elements used for measurement are thermocouples. The special slip ring and the connection of the thermocouples is described and illustrated (Figures 1 and 2). The air-cooled slip ring, consisting of a flange with a shaft bearing insulated sil-

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SOV/115-60-1-17/28

Some Problems of Measuring Temperature in Rotating Objects

ver rings, rotates at same velocity as the turbine part under investigation. The brushes are made of silver, copper and graphite powder (70, 21 and 9% respectively). The slip ring withstood 20-25 hours of measurement. One slip ring was especially "prepared" for measurement of its temperature in real gas turbines (Figure 2). The electric circuit (Figure 3) permitted simultaneous recording of the t.e.m.f. of several rotating thermocouples by means of an oscillograph. It was concluded that the best recording instruments for such measurements are potentiometers, whose readings are independent from the changing resistance of thermocouples and electric wires. A special experimental slip ring (Figure 4) was constructed for the determination of errors caused by temperature difference in the free ends of rotating thermocouples. An oscillogram

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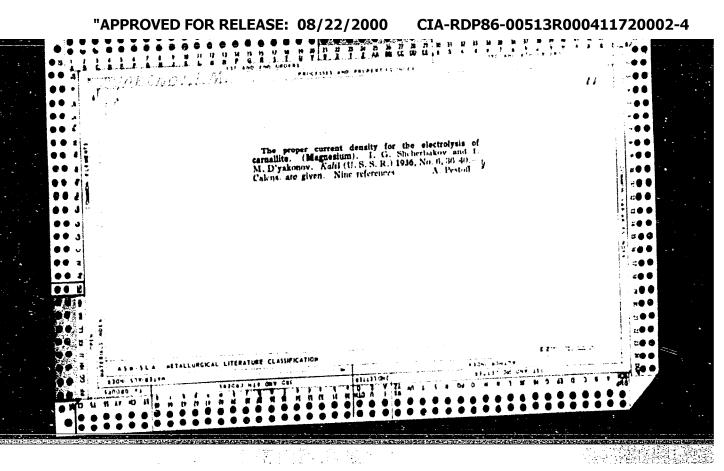
SOV/115-60-1-17/28

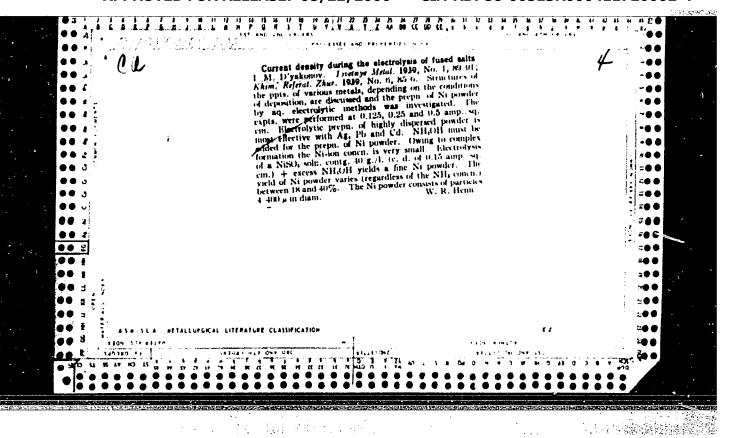
Some Problems of Measuring Temperature in Rotating Objects

is included showing the changes of temperature at 3 points on a gas turbine blade during start and heating up. The circuit includes an MVL-4 bridge.

K.K. Kosterev, V. V. Dolinskiy and N. G. Bodrov took part in design and development. There are 1 set of diagrams, 3 diagrams, 1 graph, 1 table and 1 Soviet reference.

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JYAKOKOV, III.

AUTHOR:

Pigulevskaya, N. V., Corresponding Member AS USSR 30-12-14/45

TITLE:

The International Convention of Orientalists (Mezhdunarodnyy kongress vostokovedov).

PERIODICAL:

Vestnik AN SSSR, 1957, Vol. 27, Nr 12, pp. 66-68 (USSR)

ABSTRACT:

The regular 24th Congress of orientalists took place at Munich from August 28 to September 4thIt was attended by 1200 persons. At the head of the Soviet delegation consisting of 20 persons was the director of the Institute for Orientalism of the AN USSR B. G. Cafurov. Unfortunately many important oriental states were not represented, such as the Chinese Peoples' Republic, the Democratic Republic of Vietnam, India, and Burma. The main work of the Congress was carried out in 14 sections. The Soviet delegates delivered their lectures in nearly all sections. The lecture by V. I. Avdiyev on the cultural connections between Egypt and the neighboring states during the 2 nd and 1st centuries before the new era was delivered in the section for Egyptology. In the sessions dealing with cuneiform characters contributions were made by B. B. Piotrovskiy ("Achievements in the Field of the Investigation of Urartu Civilization"), G. A. Melikishvili ("The Study of Urartu Epigraphy") and I. M. D'yakonov ("A Comparative Grammatical

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The International Convention of Crientalists.

30-12-14/45

Survey of the Churritic and Urartu Languages"). In the section for Islamic Science V. I. Belyayev spoke about the unique manuscript of the Arab historian As-Suli and on the reasons for the sectorian movements in Islam during the 7th century. A. K. Ali-Zade lectured on the Agrarian system in Azerbaijan in the 8th and 9th centuries. In the section for Turkish Science A. S. Tveritinova told about the unique manuscript of the Turkish historian Hodzha Mussein "Bedai-ul-Wekai". In the section for Iran, the Caucasus, and the neighboring countries A. G. Mirzoyev spoke about the "Author of the "Shah-in-Shah-Name" and B. G. Gafurov lectured on the "Founding of the State of the Samanides". In the section for the study of central Asiatic problems I. S. Braginskiy spoke about "The Study of the Activities of Kamol Hudzhandi in connection with the preparation of the critical text of his divan)", and A. M. Belenitskiy about "The Art of Ancient Sogda (7th and 8th centuries) in connection with the excavations recently made at Pyandzhikent . In the section for Eastern Asia the lecture delivered by P.P. Topekha on the "Economic conditions for the Meiji Revolution" gave rise to a lively discussion. In the section for South East Asia A. A. Gruber spoke about "The Problem of the Peculiar Character of Class Formation in Indonesia

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The International Convention of Orientalists.

30-12-14/45

up to 1945". In the section for African research B. A. Cl'derogge spoke about "The Nature and the Importance of the Rising under Osman Fodiy for the History of the "Hausa" (khausa). Numerous important information and lectures were contributed by the representatives of Jestern contries. The lectures of Soviet research workers on the problems solved by Soviet scientists met with general interest. Particular interest was created among the participants by what was said about the study of Eastern manuscripts in the USUR and the excavations of Soviet archeologists. Great importance must be attached to the meetings between the scientists outside the sessions. There was good understanding in the discussions with the scientists of Arab: states. Between Soviet and British crientalists friendly relations had existed already since the 23rd. convention. The same friendly relationship was established with French, Belgian, Iranian, and Afghan delegates as well as with the delegates from Ceylon and with some delegates from the U.S.A. On the last day of the Convention in Eurich a reception of the German delegates took place. A distinct sign for the acknowledgment of the merits of Soviet orientalists was the unanimous decision of the consultative and general assemblies to convene the next convention of orientalists im Leningrad.

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The International Convention of Orientalists.

30-12-14/45

AVAILABLE:

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4. History-Turkey

Card 4/4

D'YAKONOV, K. (Belokalitvenskiy rayon, Rostovskoy oblasti)

Respected in the whole village. Obshchestv. pit. no.9:13
S'63. (MIRA 14:11)
(Restaurants, lunchrooms, etc.)

D'YAKONOV, K.F., inzhener.

予してかった。これがは在で置きや数でありまである。

Debarking bolts in match factories. Der.i lesokhim.prom 3 no.6:17-18 Je \*54. (MLRA 7:7)

1. Kaunasskiy derevopererabatyvayushchiy tekhnikum. (Bark peeling)

BYVSHIKH, Mikhail Dmitriyevich; D'YAKONOV, Kuz'ma Filarentovich;
DONNIKOVA, A.A., red.izd-va; SHIBKOVA, R.Ye., tekhn.red.

[Reference book for the foreman of a lumber kiln]Posoble masteru lesosushil'nogo tsekha. Moskva, Goslesbümizdat, 1962. 121 p. (MIRA 16:3)

(Lumber--Drying)

BYVSHIKH, Mikhail Dmitriyevich; D'YAKONOV, Kuz'ma Filaretovich; POTEKHIN, L.P., red.; MELEKHOVA, L.S., tekhn. red.

[Controlling, measuring, and regulating apparatus for chamber wood drying] Kontrol'no-izmeritel'nye i reguliruiushchie pribory kamernoi sushki drevesiny. Arkhangel'sk, Arkhangel'skoe knizhnoe izd-vo, 1962. 89 p.

1. Laboratoriya sushki TSentral'nogo nauchno-issledovatel'-skogo instituta mekhanicheskoy obrabotki drevesiny (for Byvshikh, D'yakonov).

(Lumber--Drying)

BYVSHIKH, M.D.; D'YAKONOV, K.F.; NETREBENKO, L.A., red.

[Control, measuring, and regulating equipment for the kiln drying of lumber] Kontrol'no-izmeritel'nye i reguliruiushchie pribory dlia kamernoi sushki drevesiny. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovanii po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvaiushchei promyshl., i lesnomu khoz., 1963. 67 p. (MIRA 17:10)

D'YAKONOV, K.F.

Effect of the temperature conditions of drying on the strength of pine wood. Der. prom. 14 no.1:12-14 Ja 165.

(MIRA 18:4)

1. TSentral nyy nauchno issledovatel skiy institut mekhanicheskoy obrabotki drevesiny.